Problems in the Automation and Mechanization (Cont.)	ov/3384
TABLE OF CONTENTS:	\ 1 2.
Pre face	
I. Shaskol'skiy, B. V., Docent, Candidate of Technical Sciences Savkin, Candidate of Technical Sciences. Problems of Automorphicary Adjustment in Lathe Work The article is divided into the following out sections Selection of the parameters of the automatic adjuster Construction of the automatic adjuster Experimental investigation of the operation of the automatic adjuster Machining parts with the aid of the automatic adjust	automatic
Conclusions	; ;
A. A. Nikolayev, Candidate of Technical Science of Automatized Lathes for Lot Production The article is divided into the following sub-sections: Methods of investigation Results of investigation Determination of the necessary perating controls of	29
Card 4/5	

SAVKIN, Yu.G.; NIKOLAYEV, A.A.

Investigating the operation of an electric servosystem with a two-position copying device and electromagnetic clutches in feed drives. Nauch.dokl.vys.slicoly; mash. i prib. no.1:42-50 59. (MIRA 12:8)

1. Stat'ya predstavlena kafedror "Mekhanicheskaya obrabotka i metallorezhushchiye stanki" Mostcovskogo aviatsionnogo tekhnologi-cheskogo instituta.

(Machine tools--Numerical confeol) (Electric controllers)

3/112/59/00/012/087/097 A052/A001

Translation from Referativnyy zhurnal, Elektrotekhnika, 1959, No. 12, p. 258,

AUTHORS -

Nikolayev, A.A., Kersha, V.O., Polonskiy, A.B.

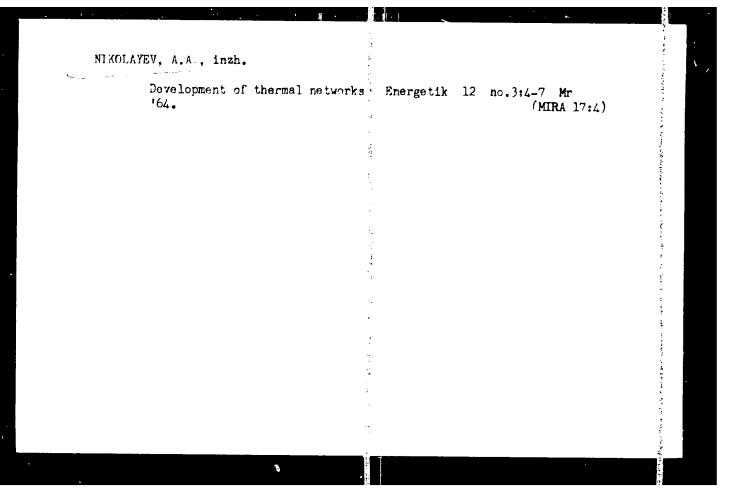
TITLE

Television Translation Station

Tr. Televizion, fil -labor, 1556, No. 2, pp. 50-67 PERIODICAL.

TEXT Subscribers' unit in the television translation station developed by MT中几(MTFL) contains the minimum of functions. The video signal, line and frame scan signals as well as the sound accompaniment are led to it. An electrostatic deflection tube is used. For experimental $t \epsilon$ ting 3 stations with 200 subscribers ℓ units each have been prepared. The video signal transmission is realized by means of a coaxial cable with the length of a tap to the subscriber of \(\leq 9 \) m. The passband is 4 Megacycles. Line and frame signals are translated over 2 wire lines The interference of video signal and line scal chains with the broadcast reception is considered as well as the measures to eliminate it. A short description of the station is given. V.P.A. Translator's note. This is the full translation of the original Russian abstract

Card 1/1



KULIKOV, F.V., kand.tekhn.nauk; KIZILEV CH-KELEVICH, G.V., kand.tekh.nauk;
NIKOLAYEV, A.A., inzh.

Effect of tin on the properties of copper solder. Svar. proizv.
(MIRA 16:2)

1. Moskovskiy energeticheskiy ustitut.
(So. ler and soldering)

NIKOLAYEV, A.A., inzh. (Fastov, Kiyeva coy obl.)

Joining gas pipelines by gluing. Stroi. truboprov. 7 nc.3:
23-24 Ag '62. (MIRA 15:9)
(Gas, Natural--Pipelines) (Pipe fitting) (Epoxy resins)

Subject : USSR/Electricity

AID P - 2406

Card 1/1 Pub. 26 - 5/33

Authors : Vindman, R. N., and Nikolayev, A. A., Engrs.

Title : Problems of heat supply to cities and industries

Periodical: Elek sta 5, 18-21, My 1955

Abstract : The article discusses problems connected with the building

of heat and electric power plants. Usually, the capacity of these plants is 100,000 to 150,000 kw and they are located at some distance from residential areas. The interconnection of the heat supply network is analyzed, and the erection of several plants to supply one city is discussed. More study of the problem is recommended.

Institution: None

Submitted : No date

AUTHOR: Leart yeva, T.K., Cand late of Technical Science

Monastyrskaya, A.R., Princer

TITLE: An Ill-Union Conference on the Future Development of District Heating in the USSR (Vsesoyuanoye soveshchaniye to vorros and all neyshego razvitiya terlofikatsii SSSR)

PERIODICAL: Terloenergetika, 1956, in 11, if 90-92 (USCR)

ADSTR.CT: On the 11th - 13th July, 1958, there was held in Moscow an All-Union Congression on the Further Development of District Heating in the Soviet Union, organised by the Moscow Diffectorate of the Scientific Technical Society of the Figer Industry and the District Heating Section of the High Tengerature Steam Commission of the Power Institute, Loadeny of Salences (USSR). The Conference was attended by 24 representatives from 16 these. Design,

Scientific research, teaching and other organisations, heat and electric power stations, GOSPLAN USSR and

Councils of National Economy were represented. Chinese and Polish power engineers also participated. Reports

Card 1/6

SOV/96-58-11-18/21

An All-Union Conference on the Future Development of District Heating in the USSR

were read on the future development of district heating for 1959-65, on the effectiveness of district heating and its main lines of development, on reducing the construction cost of district heating equipment and on related topics. Engineer B.I.Duba of the Ministry of Electric Power Stations, reviewed the present state of heat supply, its expected development and the tasks of research and design organisations in this matter. S.F.Kopyev, Doctor of Tackrical Science of the Power Institute, academy of Sciences USSR, stated in his report that in the USSR district heating is the main method of heat supply to industry and towns. There is considerable lag in the application of district heating in some of the older towns. With increased availability of large power stations, freer supply of gas oil and chear fuel, district-heating whemes are no longer so casy to justify. The Power Institute, Academy of Sciences USSR, has made a technical economic analysis of the subject based on determinations of the pay-off

Card 2/6

SOV/96-58-11-19/91

An All-Union Conference on the Future Development of District Heating in the USSR

time of the capital expenditure. The conclusions are presented and it is considered that district heating is still to be advised even when large power systems are available. Data are given about the smallest sizes of power station in which district heating is advisable. The report indicates the main lines of development of heat—and electric—power stations. L.A. Melent yey Doctor of Economic Science of the Leningrad Engineering Economic Institute and the Leningrad Laboratory of the Power Institute, Academy of Sciences USSR, described the great increase in district heating during 1950-1957. Much can still be done to make district heating more economic. In a number of existing power stations, little benefit is obtained from combined power—and heat—supply because of delays in the construction of heating networks and excessive cost of district—heating equipment. The utilisation of heat in industry is increasing very

Card 3/6

SOV/96-53-11-13/21

An All-Union Conference on the Future Development of District Heating in the USSR

rapidly by approximately 50% in five years and it is therefore, important to avoid the use of uneconomic industrial boiler houses. During the next seven years it will be necessary to increase the output of heat for industrial use from heat and electric-power stations by a factor of at least ? /2. A.A. Nikolayev, Engineer of Teploelektroproyekt, in his report considered the main methods of reducing the cost of construction of district-hesting stations and heating systems. Power stations can be made larger by supplying both domestic and industrial heat requirements. Water-heating and low-pressure steam boilers should be used to cover peak loads. A.I.Lozhkin, Doctor of Technical Science of the Central Boiler Turbine Institute, pointed out that with the increased importance of gas as a power fuel it was becoming possible to construct heat and electric power-stations with combined steam/gas installations and that by using the steam/gas cycle the amount of electricity generated in connection with heat supply could be

Card 4/6

SOV/96-50-11-18/01

An All-Union Conference on the Future Development of District Heating in the USSR

increased by 30 - 50%. The most important part of the discussion in the conference was on the papers of Kopyev and Melentyev. The Conference noted the achievements in district heating during the last 34 years but listed a number of defects. The Conference agreed with the proposed rate of increase of heat supply from heat and electric power-stations. The importance of building larger stations and avoiding the construction of industrial boiler houses was emphasised. Recommendations were made on the design of rational types of district-heating turbines and boilers for regional and peak boiler houses. The conference asked GOSPELH and the Sovnarkhozy (Councils of National Roman) to plan the development of power

Card 5/6

SOV/96-58-11-18/91

An All-Union Conference on the Future Development of District Heating in the USSR

for the economic regions with proper allowance for combined electricity, heat and gas supply for industrial, domestic and agricultural requirements.

car 1 5/6

DZEVANSKIY, Yu.K.; DODIN, A.L.; FONIKOV, A.Z.; KRASNYY, L.I.; MAN'KCVSKIY, V.K.; MOSHKIN, V.N.; LYATSKIY, V.B.;
NIKCL'SKAYA, I.F.; SALCP, L.I.; SALUN, S.A.; FABEIN,
M.I.; RAVICH, M.G.; POSPELOV, A.G.; NIKOLAYEV, A.A.; IL'IN, A.V.; BUZIKOV, I.P.; MASLENNIKOV, V.A.; NEYELOV, A.N.; NIFITINA, L.P.; NIKOLAYEV, V.A.[deceased]; OBRUCHEV, S.V.; SAVEL'YEV, A.A; SEDCVA, I.S.; SUDOVIKOV, N.G.; KHIL'TOVA, V.Ya.; NAGIBINA, M.S.; SHEYNMANN, Yu.M.; KUZNETSOV, V.A.; KUZNETSOV, YU.A.; BORUKAYEV, R.A.; LYAPICHEV, G.F.; NALIVKIN, D.V., glav. red.; VERESHCHAGIN, V.N., Zam. glav. red.; MENNER, V.V., zam. glav. red.; OVECHKIN, N.K., zam. glav. red.[deceased]; SOKOLOV, B.S., red.; SHANTSER, Ye.V., red.; MODZALEVSKAYA, Ye.A., red.; CHUGAYEVA, M.N., red.; GROSSGEYM, V.A., red.; KELLE., B.M., red.; KIPARISCVA, L.D., red.; KOROBKOV, M.A., red.; KRASNOV, I.I., red.; KRYMGoLITS, T.Ya., red.; LIBROVICH, L.S., red.; LIKHAHEV, B.K., red.; LUPPOV, N.P., red.; NIKIFOROVA, O.I., red.; POLKANOV, A.A., red.[deceased]; RENGARTEN, V.P., red.; STEPANOV, D.L., red.; CHERNYSHEVA, N.Ye.; red.; SHATSKIY, N.S., red.[deceased]; EBERZIN, A.G., red.; SI'IRNCVA, Z.A., red.izd-va; GUROVA, O.A., tekhn. red.

HIGH STATE OF THE STATE OF THE

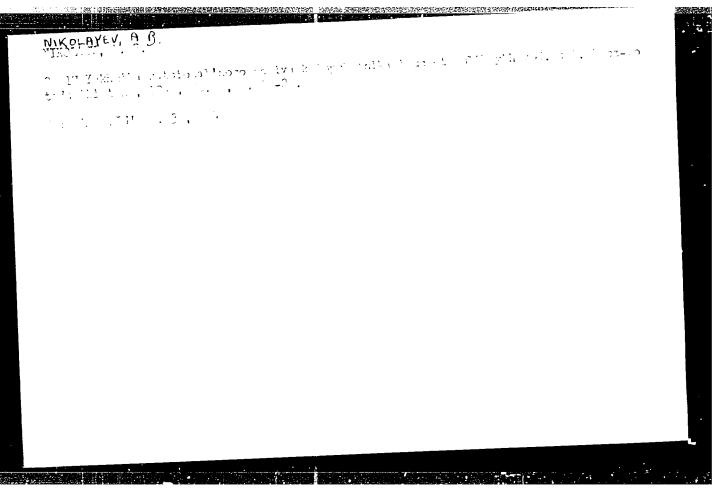
[Stratigraphy of the U.S.S.R. in fourteen volumes. Lower Pre-Cambrian] Stratigrafiia SSSR v chetyrnadtsati tomakh.

Nizhnii Dokembrii. Moskva, Gos. nauchno-tekhn, izd-vo lit-ry po geologii i okhrane nedr. Pt. 1 (Asiatic part of the USSR) 1963. 396p.

MASALOVICH, G.I., kand. tekhn. nauk, dots.: GALKIN, I.N., kand. tekhn. nauk, dots.; KOSAREV, A.I., Land. tekhn. nauk, dots.; NIKOLAYEV, A.A., assistent

[Outline of lectures in the general course on the technology of metals] Konspekt lektsii po obshchemu kursu tekhnologii metallov. Moskva, Pt.3. Sec.6. [Metal cutting] Obrabotka metallov rezaniem. 1963. 235 p. (MIRA 17:7)

1. Moscow. Energeticheskiy institut.



AUTHORS: Nikolayev, A.B.; Kelli, A.Ch. 559/26-58-12-36'44

TITLE: Once More About the Wild Small-Fruit Slants of the North (Yeshche raz o dikikh yagodnykh rastenivakh severa)

FEBIODICAL: Priroda, 1958, Nr 12, pp 121 - 122 /UNE

ABSTRACT: The article deals with a dispute on the possible and prospective selection and cultivation of wild small-fruit plants in the USSR's northern districts. A.P.Nikolayev agrees with the views expressed by agronomist V.F. Kondrat'yev stating

that little or nothing is done with respect to a planned provision of the population of the Soviet North with small fruit. Judging from his relevant experience in the Maradan Oblast, Mikolayev outlines the value of such small-fruit plants as the bog bilberry (Vaccinium uliginosum), the European blueberry (Vaccinium myrtillus), such small northern raspherries as the cloudberry (Rubus chamaemorus) and Rubus arcticus, the dog rose (Rosa canina), the bird cherry (Cerasus padus), diverse mountain ash (Sorbus) species, such as Jorbus ana-

dyrensis Kom., and the edible honey suckle (Lonicera edulis Turcz). He points out that the bog bilberry and the European blueberry have been successfully selected and cultivated in Canada and Alaska, that also the other plants would be

Card 1/2 excellent objects for selection and cultivation, that they

107/28-58-12-36/44

Once More About the Wild Small-Fruit Flants of the North

are in demand on the local markets, but that apparently no efforts are made toward cultivation by the institutions concerned. These statements are refuted by A.Ch. Kelli who quotes A.Y. Bolonyayev. Both hold that there are enormous amounts of these berries and fruit in the northern regions, which more than amply cover the needs of the population of the collecting and distribution would be organized efficiently, in the Sakhalin, Kamchatka and Magadan Oblast's, no additional cultivation would be needed in the near future. Moreover, important capital investment would be necessary for the establishment of the plantations, and careful preliminary biological, botanical and agricultural research and experimentation over an extended period of time would be required. There are 2 Boviet references.

A SSOCIATION:

Magadanskaya kompleksnaya zemleustroitel rava ekspeditsiya Ministerstva sel'skogo khozvaystva 33F39 (The Magadan Joint Expedition for Land Exploitation of the Ministry of Agriculture ... the 38F38'. Glavnyy botanicheskiy sad AN S33R (The Main Botanical Garden of the AS 7778)

Card 2/2

The primose is a dangerous plant. Priroda 49 no. 12:116-117 (MIRA 13:12)

1. Vsesoyuzuyy nauchno-issledovatel'skiy institut lekarstvennykh i aromaticheskikh rasteniy, Moskva.

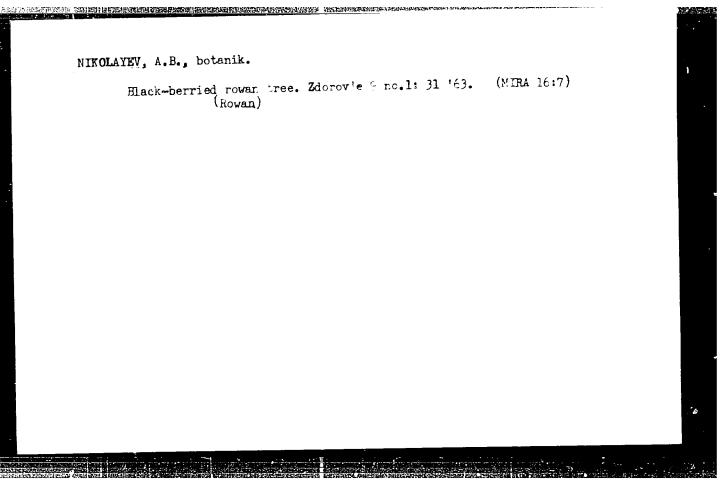
(Primoses)

NIKOLAYEV, A.B.

Utilization of wild medicinal, edible, forage and other economically precious plants of the Far North of the U.S.S.R. Probl. Sev. no.6:195-206 '62. (MIRA 16:8)

1. Vsesoyuznyy institut lekarstvennykh i aromaticheskikh rasteniy. (RUSSIA, NORTHERN—BOTANY, ECONOMIC)

Reindee	r moss as fodder. Pr	iroda 51 no.5:109-11	1 My 162.
4 aroma	tichoakikh raateniv.	dovatel'skiy institut Moskva. (Reindeer-Feeding	



NIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

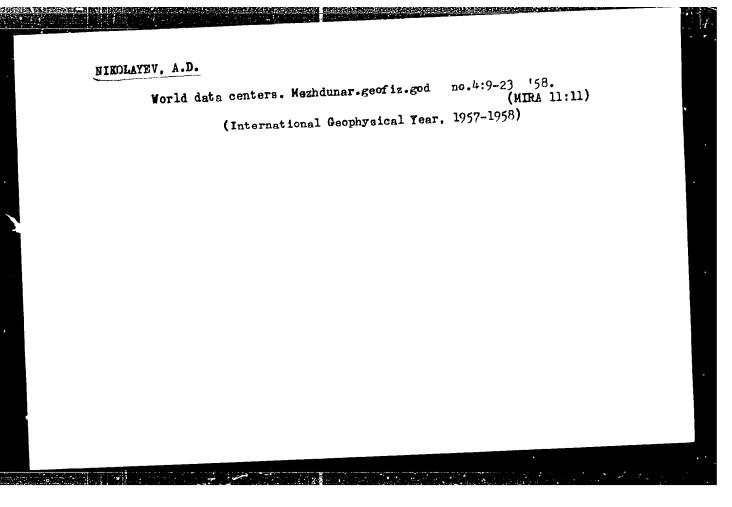
MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener; STUPIN, A.K., redaktor; EYFEL', A.I., inzhener,

MIKOLAYEV, A.D., inzhener, anzhener, anzhener, anzhener, anzhener, anz



NIKOLAYEV, A.D.; SALTYKOVA, T.I.

World center for the collection of geophysical data. Vest.
AN SSSR 31 no.8:81-84 Ag '61. (MIRA 14:8)

(Geophysics)

RIKOLAYEN, A)

AUTHORS:

Yevdokimchik, Kh.I., Engineer,

Nikolayev, A.D., Engineer

TITLE:

Modernization of the Oxygen Compressors of the Type 2PK-1.5/220

(Modernizatsiya kislorodnykh kompressorov 2PK-1.5/220)

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

PERIODICAL:

Kislorod, 1957,

Nr 6, pp. 27-28 (USSR)

67-6-8/23

Received: April 7, 1958

ABSTRACT:

In the introduction a short description is given of the "antiquated" oxygen compressors of the type 2PK-1.5/220, with which most oxygen stations are now equipped in the USSR. It is mentioned as a disadvantage of these compressors that their construction does not meet the demands of practical use. The cy! nder muffs of these compressors must frequently be exchanged, and because of the disadvantageous arrangement of the cylinders, it takes much time to repair them, which often causes the oxygen supply of factories to be interrupted. The attempt was made to "modernize" these compressors. According to the drawing attached, the "modernized" compressor consists of four cylinders which are arranged in two pairs so that step I is connected with step III, and step II with step IV. Both pairs of cylinders are mounted on cylinder stands; in the interior special

Card 1/2

Modernization of the Oxygen Compressors of the Type 2PK-1.5/220

67-6-8/23

packings are fitted for the piston shafts. In steps I and II the cylinder liners are made from cast iron, and the pistons from bronze. Each of these pistons has 6 gasket rings made of special cast iron. It is not mentioned here from what material steps III and IV are made, and it is merely said that the piston of step III has 8, and that step IV has 12 gasket rings, which are in both cases made of a special brass alloy (LM400 58-2-2-2). The gasket rings of the fourth step consist of two parts of different diameter, by which the packing effect is increased. A scap emulsion is used as lubricant for all four steps. As mentioned in conclusion, this new "modernized" type of oxygen compressor proved to be successful in operation but it still has some constructional faults which must be taken into account when a new model is produced, as e.g. the fact that 2 cylinders are arranged one above the other makes the changing of piston rings very complicated. There is 1 figure.

AVAILABLE:

Library of Congress

Card 2/2

Catalytic synthesis of A-arylamino ketones. Zhur.ob.khim. 31 no.12:3894-3896 D'61. (MIRA 15:2)

1. Permskiy sel'skokhozyaystvennyy institut imeni D.N.Pryanishnikova. (Ketone)

(Schiff bases) (Malonic acid)

Catalytic condensation of Schiff bases with malonic ester. Zhur. ob.khim. 33 no.7:2387-2389 Jl '63. (MIRA 16:8)

1. Permskiy sel'skokhozyaystvennyy institut imeni D.N. Pryanishnikova.

KOZLOV, N.S.; NIKOLAYEV, A.D.

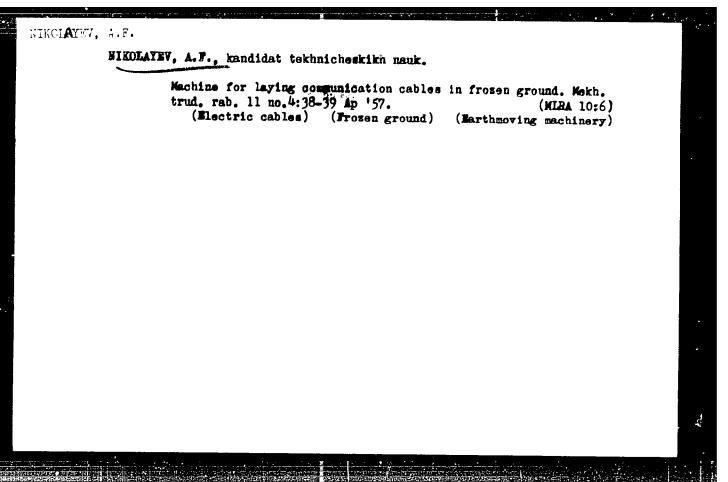
Catalytic synthesis of antipyrine derivatives. Dokl. AN SSSR 154 no.6: 1382-1384 F '64. (MTRA 17:2)

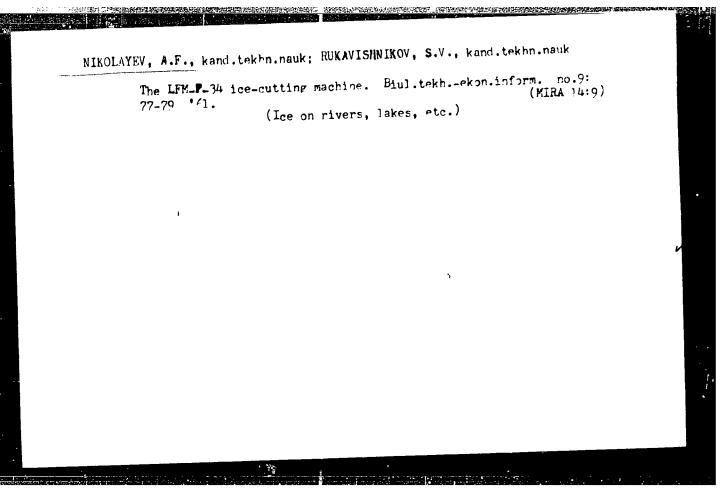
1. Permskiy sel'skokhozyaystvennyy in**stitut** im. D.N.Pryanishnikova. Predstavleno akademikom A.A.Balardinym.

NIKOLAYEV, A.F., kandidat tekhnicheskikh nauk; PANOV, V.I., inzhener.

Supplementary planetary gear sets used in the S-80 tractors.
Stroi.i dor.mashinostr. 2 no.7:19-20 J1 '57. (MIRA 10:7)

(Tractors) (Automobiles--Transmission devices)





MINOLINEW, A.F., kend.t Dim.med; RUMAVISHNIKOV, S.V., hand.teldim.medd;

**Reducing gear with lower take-off for DT-54A tractors. Strot.
i dor. mash. 6 no.9:23-24, S '61.
(MINA 14:10)
(Tr otors--Engines)

NIKOLAYEV. A.P., kand.tekhn.nauk; RUKAVINSHNIKOV, S.V., kand.tekhn.nauk; FEDIN, I.W., inzh.

The FTK-GPI-38 cutting trencher. Stroi.i dor. mash. 7 no.7:5-8 Jl (MIRA 15:7)

(Excavating machinery)

NIKOLAYEV, A.F., kand. **khm. nauk; FEDIN, I.V., inzh.; PANOV, V.I.
inzh.; FOL*, L.R., inzh.

DFM-GF1-1 and DFM-GF1-2 machines for frozen ground. Stroi i dor.
mash. 8 nc.12:5-6 D*63

(MIRA 17:7)

<u>l 41189-65</u> EWT(1)/T GW

ACCESSION NR: AP5001878

5/0286/64/000/023/0030/0030

AUTHORS: Nikolayev, A. F.; Solov'yev, S. S.

B

TITLE: Nachine for providing snow-ice covering on roads and airfields. Class 19, No. 166727

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1964, 30

TOPIC TAGS: ice, road, snow

ABSTRACT: This Author Certificate introduces a machine for making snow-ice layers on roads and airfields, consisting of a frame (to be towed) supported on the working surface by a front ski and with the working apparatus located at the rear part of the frame. It contains a vibration plate and cutter in a heating chamber into which hot gases are introduced from the combustion chamber for melting the snow cover. To obtain a higher density and uniformly high ice covering and to increase its load carrying properties, a frame is located between the cutter and the vibration plate which can be moved vertically by, for example, a screw mechanism. On a platform, connected to this frame with spring shock absorbers, a vibrator is mounted which provides vertical vibrations to vertical streamlined stays which support a hinged deep-compacting heating plate. Hot gases from the combustion

Card 1/2

L 41189-65

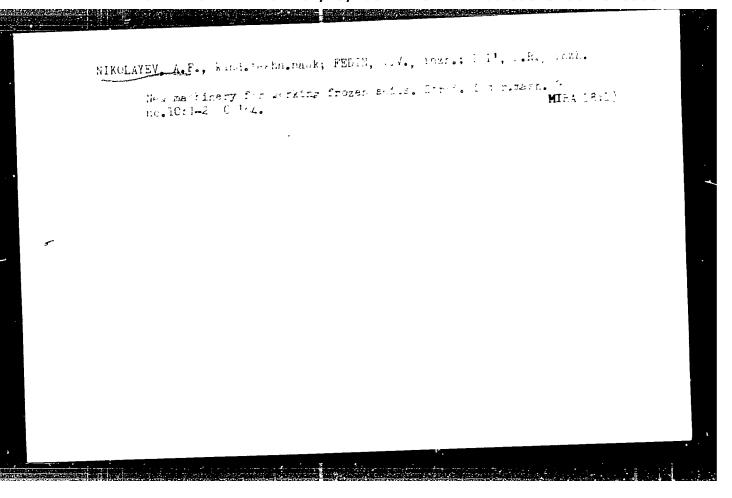
ACCKSSION NR: AP5001878

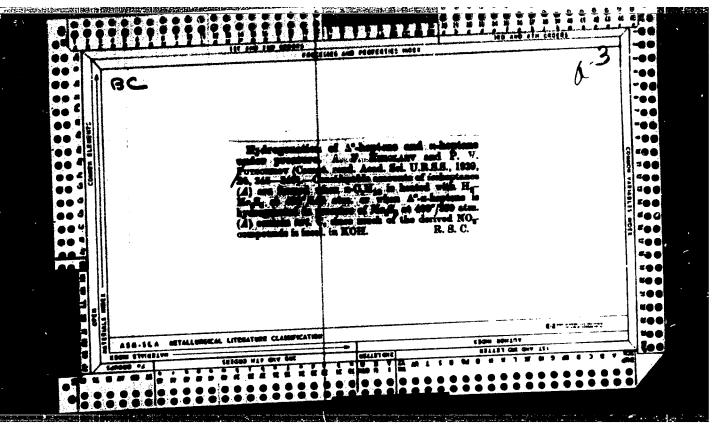
chamber reach the snow through perforations in the cylindrical top plate of the heating plate. The external stays of the deep vibration plate have passages to provide the hot gas to the plate while the center stay is provided with a device, for example, a mechanical device, for changing the operating depth of the compacting heating plate.

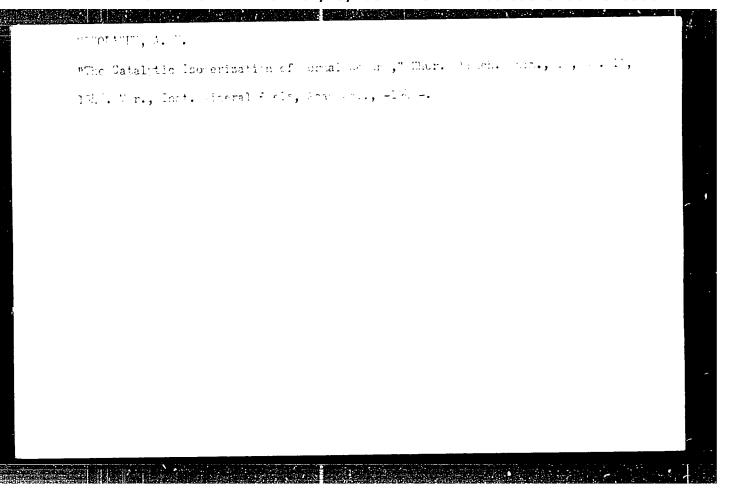
ASSOCIATION: Mone

SUBMITTED: 2LDec62 ENCL: 00 SUB CODE: GO

NO REF SOV: 000 OTHER: 000







NIKOLAYEV, A. F.

Dissertation: "Investigation of the Joint Polymerization of Vinylcarbazole With Esters of Vinyl Alcohol and Organic Acids (Formic, Acetic, Propionic, and Butyric)." Cand of Vinyl Alcohol and Organic Acids (Formic, Acetic, Propionic, and Butyric)." Cand Of Vinyl Alcohol and Organic Acids (Formic, Acetic, Propionic, and Butyric)." Cand of Vinyl Alcohol and Organic Acids (Formic, Acetic, Propionic, and Butyric)." Cand Of Vinyl Alcohol and Organic Acids (Formic, Acetic, Propionic, and Butyric)." Cand Of Vinyl Alcohol and Organic Acids (Formic, Acetic, Propionic, and Butyric)." Cand Of Vinyl Alcohol and Organic Acids (Formic, Acetic, Propionic, and Butyric)." Cand Of Vinyl Alcohol and Organic Acids (Formic, Acetic, Propionic, and Butyric)." Cand Of Vinyl Alcohol and Organic Acids (Formic, Acetic, Propionic, and Butyric)." Cand Of Vinyl Alcohol and Organic Acids (Formic, Acetic, Propionic, and Butyric)." Cand Of Vinyl Alcohol and Organic Acids (Formic, Acetic, Propionic, and Butyric)." Cand Of Vinyl Alcohol and Organic Acids (Formic, Acetic, Propionic, and Butyric)." Cand Of Vinyl Alcohol and Organic Acids (Formic, Acetic, Propionic, and Butyric)." Cand Organic Acids (Formic, Acetic, Propionic, and Butyric)." Cand Organic Acids (Formic, Acetic, Propionic, and Butyric)." Cand Organic Acids (Formic, Acetic, Propionic, Acetic, Prop

NIKOLAYEV, A.F

USSE/ Chesistry - Polymerisation

Pub. 40 15/25 Card 1/1

W., and Kikolayav, A. .. Ushakov, Authors

Polymerisation and copolymerisation of N-vinyl compounds, Part 1. Title

merisation of vinyl carbasole with vinyl esters

. Isv. AM SSSR. Otd. khim. nauk 1, 83-91, Jan 1956 Periodical

New hitherto unknown vinyl carbasole and winyl ester copolymers of organic acids (formic, acetic, propionic and butyric) obtained through mass polymeri-Abstract sation are described. The causes for the reduction in the rate of vinyl ester copolymerization followed by an increase in the length of the soid residue chain of vinyl other are explained. The copolymerisation constants

were established for several vinyl base compounds and the differential and integral compositions of the vinylcarbasole copolymers were estimated.

Thirty-eix references: 17 USA, 6 USER, 2 Germ., 1 French and 10 Eng. (1937-

1953). Tables; graphs.

Institution : Leningrad Technological Institute im. Leningrad Soviet

Submitted : March 10, 1955

NIE LAYEV AF

USSR/Chemistry of High-Molecular Substances, F

Abst Journal: Referat Zhur - Khimiva, No 19, 1956, 61745

Author: Ushakov, S. N., Nikolayev, A. F.

Institution: Nore

Title: Polymerization and Copolymerization of N-vinyl Compounds. Com-

munication 2. On Some Characteristics of the Reaction of Copolymerization of Vinyl Acetate and Vinyl Carbazole and the Properties

of the Copolymers

Original

Periodical: Izv. AN SSSR, otd. khim. n., 1956, No 2, 226-231

Abstract: Rate of copolymerization of vinyl carbazole (I) and vinyl acetate

(II) (temperature 80° and 100°, initiator benzoyl peroxide) passes through a minimum at a concentration of I of 10-20 mol %. At 65° and a 10-35% concentration of I polymerization does not take place. Rate of copolymerization of I and II is proportional to the square root of the concentration of the initiator and the higher the con-

centration of I in the mixture the higher is the rate of

Card 1/2

USSR/Chemistry of High-Molecular Substances, F

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61745

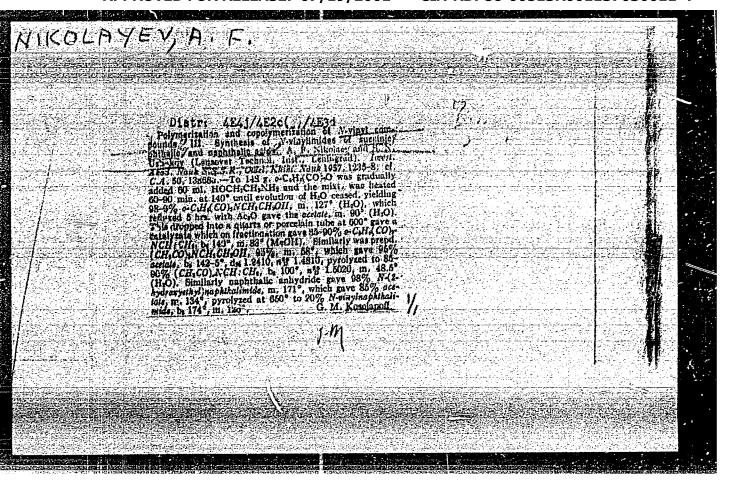
Abstract: copolymerization; with concentrations of I >5% polymerization takes place in the absence of the initiator. By the dilatometric

method determinations were made of the temperatures of vitrification $T_{\rm vit}$ of the copolymers and it was shown that the $T_{\rm vit}$ versus concentration of I curve passes through a minimum at a concentration of I of 3-10% (10-15°) and through a maximum at a concentration of 70-75% (125-130°). The best solvents for these polymers

are dioxane and CHCl3. Communication 1, see Referat Zhur - Khimiya,

1956, 58300.

Card 2/2



SOV/62-58-8-9, 25 Nikolayev A. F., Ushakov, S. N., Rozenberg, M. E. Polymerization and Co Polymerization of neVinyl Compounds AUTHORS: (Polimerizatsiya i sopolimerizatsiya n-vinolinykn soyedinen y) Note 4: The Polymerication of Viny Phiha in de (Sourabored ye TITLE: 4. Polimerizatilya vinilftalimidal Izvestiya Akademii nauk SSSR, Ctdeleniye knimi heskiki hauk, 1958, Nr 8, pp. 968-972 (USSR) PERIODICAL: In publications there exist few reports in the polymerization of veny phinalimide. In the instrudential the first extended and the preliminary work for the production of polyvicy. ABSTRACT: phthalimide and vinyl phthalimide are discussed in sour . Ref-4). In the present paper the authors describe the polyment ration of viry, phthalimide (in block and in the solven.). Also data in the properties of the polymer are given. The dee pendence of the polymerization rate of vinyl phtha. m. de and of the molecular weight of the polymer on the conditions of the polymerization in the presence of benzeyl peroxide and azo dilsobutyro nitrile were characterized. It was found ton. powdery polyriny phihalimiae priduced in the polyring rate. Ca-4 .2

SOV/62-18 9 9 12 Pllymerization of n-Vinyl Computation Note 4: Tre-Polymerization of Vinyl Phthalimide

of the musimer in beazene is also suited for the further processing. The polymer obtained has enough hardness and head resistance, and is soluble to a limited extent in organic substances. There are 3 figures, 5 tables and 12 references, 3 of which are Soviet.

ASSOCIATION: Leningraiskiy tekhnologi heskly institut im. Lensoveta

(Leningrad Technologica, Institute imen: Lensivet

SUBMITTED: January 1957

Card 2/2

5 (3)

AUTHORS: Nikolayev, A. F., Ushakov, S. N., SCV/62-59-9-:7/40

Krasnosel'skaya, I. G.

TITLE:

Polymerization and Copolymerization of N-Vinyl Compounds.

Communication 5. Polymerization of Vinyl Succinimide

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1959, Nr 9, pp 1627 - 1630 (USSR)

ABSTRACT:

The present article describes the polymerization of N-vinyl succinimide (VS), which has not been previously described, and the properties of the polymers obtained are investigated. VS was prepared by a method described by the authors in reference 1, by pyrolysis from β -acetooxyethyl succinimide. The polymerization of VS succeeded only by using peroxide initiators. The polymerization was carried out at 50, 65, and 850 with 0.2% benzoyl peroxide (BP) in solid state and in solution. Figure 1 illustrates the influence of the temperature and figure 2 the influence of the concentration of the initiator on the polymerization rate. At 50° a maximum yield (98%) was obtained during 6 hours. The yield decreased with increasing temperature, but the reaction rate increased. The complete consumption of the monomer ended the polymerization. The polymer obtained is colorless, trans-

Card 1/2

TET PENNETIPA PHEIR TERMENE PARTIES COLLEGIS TO TOTAL COLLEGIS COL

Polymerization and Copolymerization of N-Vinyl Compounds. SCY/62-59-9-17/49 Communication 5. Polymerization of Vinyl Succinimide

> parent, and becomes porous and opaque when larger quantities of BP are used. The polymerization of the solving agents (dichlcroethane, benzene, methyl alcohol, and water) rapidly occurred at 85° even in diluted solving agents and the yield was good. (Table 3). As particular properties of the obtained polymers the following 2 have been established: limited solubility in organic solving agents and a low stability in water (Table 3). There are 3 figures, 4 tables, and 5 references, 3 of which are Soviet.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut im. Lensoveta (Leningrad

Institute of Technology imeni Lensovet)

SUBMITTED:

January 8, 1958

Card 2/2

CIA-RDP86-00513R001137030011-4 "APPROVED FOR RELEASE: 07/19/2001

5 (3) AUTHORS:

Nikolayev, A. F., Ushakov, S. N.,

sov/62-59-9-18/40

Grinburg, R. B.

TITLE:

Polymerization and Copolymerization of N-Vinyl Compounds.

Communication 6. Simultaneous Polymerization of Vinyl Succinimide

ERECTOR CONTROL CONTRO

and Methyl Methacrylate

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1959, Nr 9, pp 1631 - 1635 (USSR)

ABSTRACT:

The appropriate publications have not yet discussed the copolymerization of vinyl succinimide with methyl methacrylate. The present paper describes this copolymerization and lists several properties of the copolymer. To establish the conditions of the copolymerization, the influence of the temperature (50, 65° , Fig 1), and the influence of the composition of the initial components on the rate of the copolymerization reaction was investigated (the experiment lasted 1, 2, and 3 hours, Fig 2). The investigations established that methyl methacrylate is the more active component in the copolymerization. The analysis data, table 1, show that a small part of the succinimide was consumed at the copolymerization. For the acceleration of the reaction the

Card 1/3

initiator benzoyl peroxide (BP) and azodi-isobutyronitrile (AN)

Polymerization and Copolymerization of N-Vinyl Compounds. SCV/62-59-9-18/40 Communication 6. Simultaneous Polymerization of Vinyl Succinimide and Methyl Methacrylate

were additionally applied. The data obtained (Fig 3) show that AN initiates more efficiently at low temperatures, this difference is equalized by the increase of the reaction temperatures. The authors investigated the concentration relations of the basic substances 5:1, 2:1, 1:1, 1:2. Applying the initiator BP in the ratio 1:1 of the basic component and at 65-70° a yield of 95-98% was obtained within 7-8 hours. The copolymer was a thin, porous film after the evaporation of the solvent. This film rapidly softens when warmed. The authors also investigated the molecular weight, water-repelling capacity, temperature stability, solidity, density, and tensile strength of the products obtained, and it showed that with an increase of the vinyl succinimide content the three first-mentioned values decrease, while the latter increase. The copolymer with 50% of vinyl succinimide content has a greater temperature stability at 30° than pure methyl methacrylate. There are 3 figures, 3 tables, and 4 references, 3 of which are Soviet.

Card 2/3

Polymerization and Copolymerization of N-Vinyl Compounds. SCV/62-59-9-18/40

Communication 6. Simultaneous Polymerization of Vinyl

Succinimide and Methyl Methacrylate

ASSOCIATION: Leningradskiy tekhnologicheskiy institut im. Lensoveta (Leningrad

Institute of Technology imeni Lensovet)

SUBMITTED: January 8, 1958

Card 3/3

アプ・コージー ニジーン 5(3) Unm kev, S.H., dischagev, A.F., Ter theye. A.m., Trans., 1.5. AUTHORS: The distinction of Monociky-Implementation (into temperature objects to \mathbf{v}^{λ} TITIE: TERICDICAL: Aburral prikladnog kinnin, 1956, V XXXII, No.1, Sec. - ... (USSR) The derivatives of ditosis solds polymeriae and was se a" TRACT: and diving a compounds. The noncestorm of solely the vestigated for.. Trey are prepared by the result reannydride and primary, ascendary, tertiary alcorols of the alighetic, apolio on around acries. Meanwhile of the obtained from maleic anny rise and appoints stryl alconol. It is separated from the reaction dixture by potash, other, llochol, dilutal hydrochloric acid etc. The oftimum temperature for the recotion in 80°C . A theorem of the temperature to 60°C response the reaction rate conditionally. A temperature increase leads to decomposition of the tencester. In the conesters of the molein ucil are pulsale of the control of the linui s with a car ettric to seen. I J. P. 1/2

The Cynthesis of Nenoulzyles leates

storing but not to nestice. Entireposition we not decreases with the increase of the solecular seight of the sole

25217

S/662/61/17/7/107/667 009 P117/B215

CONTRACTOR OF THE SAME OF SHIP SHEET AND A SAME OF THE SAME OF THE

15.8050

Mikolayev, A. F., Usnakov, S. M., and Daniel', M. V.

TITLE:

AUTHORS:

lolymerization and copolymerization of N-vinyl compounds

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Stdeleniye kriticheskiku

nauk, no. 7, 1961, 1330-1336

TEXT: Information 8. Polymerization of vinyl succinimide in aqueous solution. This paper continues the study of polymerization of vinyl succinimide in aqueous solution in the presence of an initiator soluble in water. Potasium persulfate was used. Vinyl succinimide was prepared and purified by the method of Ref. 9 (S. N. Ushakov i A. F. Mikolayev, and purified by the method suggested for determining peroxide comanalyzed according to a method suggested for determining peroxide compounds (Ref. 15: A. Schwicker, Z. analyt Chem. 74, 433 (1928). For the polymerization of vinyl succinimide a flask with a mixer and mercury sealing, reflux condenser, and thermometer were used. A number of experiments were conducted in nitrogen atmosphere or without mixing. By adding formallenyde (in the form of formalin, and unic acid, the length of

card 1/5

rolymerization and copolymerization ...

3/ 162/61

the polymer chains was regulated, and their order-linking eliminated The reaction temperature was maintained at 700 and 8000 with an accuracy of 10.20. A 10% aqueous vinyl succinimide solution was used in all experiments. The reaction was continued until a 95-78 transformation was attained Examination of the polymerization under static conditions and with stirring showed that the rate of the process largely depends on hydrodynamic conditions. Vigorous mixing completely inhibits polymerization. Slight mixing slows the process down. At an initiator concentration of more than 0.2% and a temperature of 7.-86%, the reaction proceeds fast only without mixing. Experiments in nitrogen atmosphere showed that polymerization in this case was normal with stirring and also under static conditions. Hence, it can be seen that atmospheric oxygen has an inhibitory effect on the polymerization of vinyl succinimide under the above reaction conditions, especially at temperatures below 7.77 and with stirring It was expected that oxygen loses its innibitory effect when the reaction temperature is elevated. Actually, polymerization of vinyl succinimide is fast at 8%-9.00 and at any mixing rate. It lower temperatures, however, no polymers were formed. By adding to or more formalin and 10, or more unit sold, a polymer forms water is while in

 c_{i} rd i/i

Polymerization and copolymerization 5217.

5/962/61/ - 5/9/7/ , 7/9/9 B117/3215

chlorinated hydrocarbons, especially methylene chloride and chloroform (Table). The recessity of using chain propagators in the polymerization of vinyl succinimide indicates that the polymeric vinyl succinimide radical is most reactive. From this results its ability of [roj . sting the chain via the solymer. By whevetire the tem of the degree og polymers become tester scluste. This is the tester neight of the resulting polymer. The polymerization of white aquecus solution is fast and complete in the presence of potassium persulfate. An analysis of the dependences of polymerization leads to the following conclusions. (1) In water, the water-soluble initiator iscomposes into primary radicals, part of which is recombined. The greater part, however, is bound by vinyl succinicide and apprecization requires a strongly effective initiator, [3] puring the reaction polyvinyl succinimide is separated from the solution This process, however. does not affect the increase in viscosity of the reaction medium. 4 The full rate of polymerization is proportional to the square root of the initiator concentration not only in the initial stage, but also at nighdegree transition. This conclusion is confirmed by experimental data in the range of the potassium persulfate concentrations examined, namely,

gard 3/5

25217

Eclymerization and copolymerization ...

3, 33,50 310 5,50

from 0.1 to 0.3% of vinyl succinimide. The molecular weight of vinysuccinimide may vary according to the conditions of formation. In the experiments, the characteristic viscosity changed between ...7 and 1.4. The viscosity of the polymers is much higher when unic acid is added that it is with formalin. Additions of 3-acetoxyethyl succinimide may material for the production of the monomer, strongly affect to product at a completely impedes the formation of the production of the monomer. The formation of the production of the formation of the production of the monomer. The formation of the productions and the formation of the productions of the formation of the productions. There are a figure of table, and the references. The love of the formation of the productions and the formation of the productions of the formation of the production of the monomer. The formation of the production of the monomer, and the production of the monomer. The formation of the production of the monomer, and the production of the monomer. The production of the monomer, and the production of the monomer, and the production of the monomer. The production of the monomer, and the production of the monomer and the production of the monomer, and the production of the monomer, and the production of the monomer, and the production of the monomer and the production of the monomer, and the production of the production of the monomer and the production of the production of the monomer and the production of the production of the monomer and the production of the p

ASSOCIATION: Leningradskiy tekhnologiomenkiy institut im lensoveta (Leningrad Technologiomenkiy institute imeni lensovet

SUBMITTED: July 24, 10

Card 4/1

NIKOLAYEV, A.F.; USHAKOV, S.N.; VISHNEVETSKAYA, L.P.; VORCNOVA, N.A.;

Copolymerization of vinyl acetate and vinylphthalimide.

Vysokom.soed. 4 no.7:1053-1059 Jl '62. (MIRA 15:7)

 Leningradskiy tekhnologicheskiy institut imeni Lensoveta. (Vinyl acetate) (Phthalimide) (Folymerization)

41422

s/190/62/004/010/009/010 B101/B186

AUTHORS:

Nikolayev, A. F., Ushakov, S. N., Vishnevetskaya, L. P.,

Voronova, N. A.

TITLE:

Properties of copolymers of vinyl acetate with vinyl

phthalimide

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 4, no. 10, 1962,

1541-1546

TEXT: Copolymers of vinyl acetate and vinyl phthalimide (VPI) with the -CH2-CH- -CH2-CH- were studied to determine general composition C6H4

their solubility in different organic solvents, their molecular weight, vitrification temperature, Vicat heat resistance, softening point, impact strength, bending strength, and water adsorption. Copolymers obtained by

Card 1/3

CIA-RDP86-00513R001137030011-4" APPROVED FOR RELEASE: 07/19/2001

3 9

s/190/62/004/010/009/010 B101/B186

Properties of copolymers of i...

simultaneous charging of the components in bulk or in solution, contained an excess of VPI - VPI bonds. Compensation copolymerization yielded copolymers with a low content of such bonds differing by their thermomechanical behavior. Results: (1) The solubility in solvents in which pol 'nyl acetate is soluble, decreased as the VPI content increased; (b .he intrinsic viscosity decreased as the VPI content increased. The mc :cular weight of copolymers containing little VPI was determined from $[\eta] = 1.6 \cdot 10^4 \bar{M}_w^{-0.7}$, where $[\eta]$ was measured in acetone, at 25°C, and $\vec{M}_{_{W}}$ is the average-weight molecular weight. $\vec{M}_{_{W}}$ of copolymers containing 14% VPI was 148100, and 146200 for 23% VPI. (3) An increase in the VPI content raised the softening point, Vicat heat resistance, and glass temperature (°C), respectively: 0 mole% VPI: 60, 37, 28; 20 mole% VFI: 75, 66, 41; 56 mole% VPI: 163, 108, 62; 98 mole% VPI: 210, 182, 135. (4) For copolymers containing 0, 23, 56, 70, and 98% VPI, the specific gravity (6/cm3) was 1.190, 1.220, 1.230, 1.235, 1.245, respectively; the water adsorption within 24 hrs (%) was 1.60, 0.7, 0.42, 0.40, and 0.39%, respectively. The Vickers Hardness number (kg/mm²) was 16-18, 15-19, 15-18, 16-19, and 18-20, respectively; the bending strength Card 2/3

KRYLOV, A.A.; NIKOLAYEV, A.F.

Effect of I¹³¹ on the resistance of the erythrocytes to saponin.
Med.rad. no.5:22-25 '62.

1. Iz kafedry voyenno-morskoy i gospital'noy terapii (nach. prof. Z.M. Volynskiy) Voyenno-meditsinskoy ordena Lenina akademii
ineni S.M. Kirova.

(IODHEE-ISOTOPES) (SAPOHIES-PHYSIOLOGICAL EFFECT)

(ERYTHROCYTES)

ACCESSION NR: AT4020703

\$/0000/63/000/000/0114/0117

AUTHOR: Nikolayev, A. F.; Daniel', N. V.; Drosdova, T. B.

TITLE: Preparation and properties of poly-N-vinylacetamide

SOURCE: Karbotsepny*ye vy*sokomolekulyarny*ye soyedineniya (Carbon-chain macro-mclecular compounds); sbornik statey. Moscow, Izd-vo AN SSSR 1963, 114-117

TOPIC TAGS: polyvinylacetamide, polyvinylacetate, hydrophilic property, polarity, thermal stability, vitrification, phthalylhydrazide, polyvinylamide, polymerization

ABSTRACT: Poly-N-vinylacetamide ([n] = 1.07) was obtained by treating the phthalyl-hydrazide salt of polyvinyl amine (prepared by polymerization of N-vinylphthalimide) with acetic anhydride, after which its main physical and mechanical properties were determined. The properties of poly-N-vinyl-acetamide and polyvinyl acetate, differing from one another only in the nature of one of the atoms on the side chain, were compared. The substitution of the ester group by the NH group was found to result in products which have good hydrophilic properties, higher polarity, increased hardness, high thermal stability and a higher vitrification temperature. The conditions of the preparation of poly-N-vinylphthalimide and the phthalylhydrazide salt of polyvinylamine and the conditions for its hydrolysis with hydrochloric acid, are described in detail and the experimental data are tabulated.

Card 1/2

ACCESSION NR: AT4020703

Orig. art. has: 2 tables.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut im. Lensoveta (Leningrad

Technological Institute)

SUBMITTED: 28Apr62

DATE ACQ: 20Mar64

ENCL: 00

SUB CODE: OC

NO REF SOV: 004

OTHER: 001

Card 2/2

	8/0191/65/000/005/0067/0068 12/ H.; Erusentsove, L. M.; Katslel'son,
	MAI DEMMARKAGAR No No 1 DECOTAT BOR
: Some characteristics of an epoxy-	benol binder for SVAM
E; Plasticheskiye massy*, no. 5, 196	
TAGS: SVAM, spoxy-phenol binder, sp	oxy phenol resin
ACT: SVAM is prepared from a basic m	storial containing 70% epoxy resin (ED-6)
Of resol resin; its physico-mechanics	1 properties are dependent on the compo- resin. The resin described here was ob-
d by combining acetone solutions of I	D-6 resin (17-18% epoxy-groups) with a
phenol-formaldehyde resin (9-10% fre	e phenol) in a ratio of 70:30. It kept sfactory hardening even after 30 minutes
The same of the sa	same and partners and areas to mindres
	portion of 15% or more elways remained,
ing the thermostability and rigidity	of the material and affecting its physico-
ing the thermostability and rigidity nicel properties. It is suggested th ying the composition of the enoxy-phe	of the material and affecting its physico- at thermosetting might be improved by nol resin, matching it with a special
ing the thermostability and rigidity nicel properties. It is suggested th ying the composition of the enoxy-phe	of the material and affecting its physico- at thermosetting might be improved by

Nikolayeu A.F.

AID Nr. 980-15 31 May

COPOLYMERS OF VINYL ALCOHOL AND VINYLAMINE (USSR)

Nikolayev, A. F., S. N. Ushakov, L. P. Vishnevetskaya, and N. A. Voronova. Vysokomolekulyarnyye soyedineniya, v. 5, no. 4, Apr 1963, 547-551.

S/190/63/005/004/011/020

Copolymers of vinyl alcohol and vinylamine (I) of varying compositions and the general formula

were prepared by reacting copolymers of vinyl acetate and N-vinylphthalimide with hydrazine hydrate at 85 to 110°C for 2 to 6 hrs, depending on the N-vinylphthalimide content of the intial copolymer. Final products containing more than 10% I were isolated by precipitating them twice from water solution poured into alcohol, and those with a higher I content, by Reynolds' method.

Card 1/2

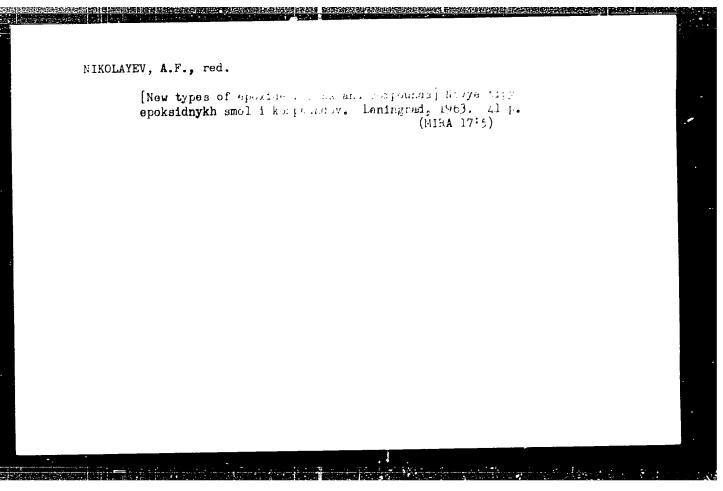
AID Nr. 980-15 31: Way

COPOLYMERS OF VINYL ALCOHOL [Cont'd]

8/190/63/005/004/011/020

The final copolymers are solids soluble in solvents which will dissolve polyvinyl alcohol. Copolymers containing 12 to 44 mol % I have the following properties: glass transition temperature, 57 to 46°C; softening point, 125 to 100°C; Vicat softening point, 84 to 74°C; bending strength, 200 to 500 kg/cm²; and Vickers hardness, 14 to 19 kg/mm². The glass transition temperature, heat resistance, and softening point of the copolymers drop with an increase of the amino group content. The study was carried out at the Leningrad Technological Institute imeni Lensovet.

Card 2/2



NIKOLAYEV, A.F., insh.

Size and direction of the bending of small-diameter clocks in peeling. Der. prom. 12 no. 5:15 S '62. (MIRA lorlo)

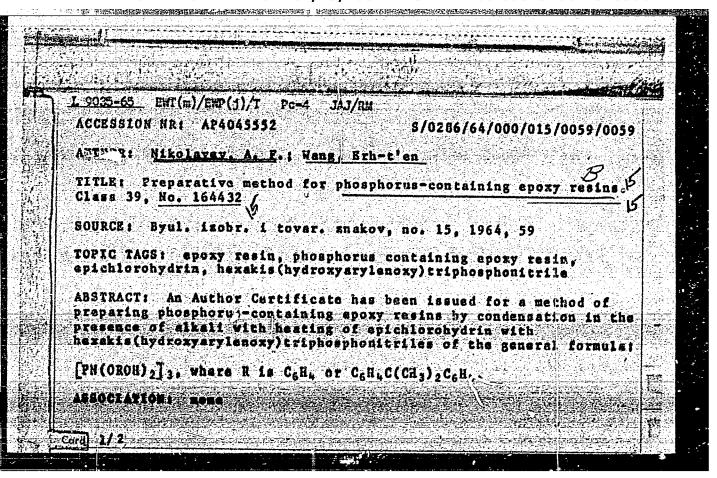
s/079/65/033/002/004/009 D204/D307 AUTHORS: Mikolayev, A.F., Rozenberg, M.E., Daniel', M.V. and Tereshchenko, G.P. Synthesis of some derivatives of monoethanol-TITLE methylamine PERIODICAL: Zhurnal obshchey khimii, v. 33, no. 2, 1963, TEXT: Monoethanolmethylamine (I) was prepared by the method of Knorr and Hatthes, in 55 - 55 % yield; diethanolmethylanine (II) was also obtained, in 33 - 35 % yield, as a side-product. On boiling I with ethyl acetate under reflux for 18 hrs, 20 - 25 % of the theoretical yield of β -hydroxyethyl-E-methylacotamide (III) was formed. β -Acetoxyethyl-E-methylacetamide (IV) was derived from the acetylation of I with acetic anhydride with H2SO4 as a catalyst, in 20 - 85 % yield. Treatment of I with HCl, with cooling, followed by evaporation to dryness, and treatment with benzene and SOCl2 gave 90 - 95 % of B - chloroethyl-N-methylamine hydrockloride (V), which Card 1/2

Synthesis of some ... S/079/63/033/002/004/009

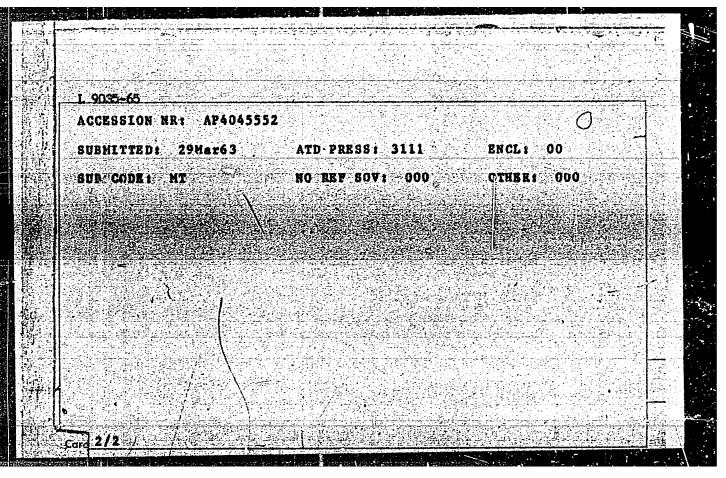
On boiling with henzeme/acetyl chloride and distillation gave A - chloroethyl-N-methylacetamide (VI), in 90-95 % yield. Compound VI is new. All the above monoethanolmethylamine derivatives are of interest as potential starting materials for synthesis.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad Technological Institute imeni Lensovet)

SURHITTED: November 17, 1961



"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R001137030011-4



	ON ARI ARSOLI	/EVP(1)/ZJT(m)/T A16	UR/O	081/65/000/006/	8072/8072	13
Source : Auteor :	Ref. zh. Khi Nikolayev, A	miya, Abs. 58489 pr. 55 . F.; Panova, L. P	.; Afanas'yeva,	K. 8.58	<i>3</i> 5 6	
TITLE :	Preparation a	nd properties of p	olyurethanc for	n plastics/2		
CITED 8	OURCE: Tr. Le	ningr. tekhnol. in	-ta im. Lensove	44,55 ta. vyp. 63. 19	164.76-79	
**************************************		stic, polyurethane				
irans la	TION: The aut	hors demonstrate t	he possibility	of using the ai	r-oxidation	Tig.
		kerogen for the p unpurified and pur				
was mad	le of 2,4-toluy	lene diisocranate	or the product	of its reaction	with metriol	
		yl amine was used form composition,				
with we	ter, catalyst,	and emulsifier.	Then, after the	curing agent w	as added, the pre and then	

be accelerated composition

Nikitin, Yevgeniy Corginatio, and a few along the day,
A.F., re:

[Testh.lawins] precision of pests from thermopleation
randfactured by the injection. Jing method; Teahhaingloheaseta to most detailed a fer application, posewheenyke meter is little post taxierie. Leringral, 1902.

[Mira 17:11]

On p.

KARDASHOV, David Alekseyevich, Nikolayev, A.F., red.

[New adheates based on synthetic polymers for conting metals to nonnetalite materials, Novye kiel na concer sin testicheskikh polimerov dlia skleivardia metaliculi ne metallicheskikh materialov. Leningrad, 1964, 8 p. MISA 2 ...

MISA 2 ...

NIKOLAYEV, A.F.; USHAKOV, S.N.; MISHKILFYEVA, L.S.

Copolymerization of N-vinylsuccinimide and vinyl acetate. Vysokom.soed.
6 no.2:237-291 F '64. (MIRA 17:2)

1. Leningradskiy tekhnologiche kiy institut imeni Lensoveta.

NIROLAYEV, A.F.; DANIEL', M.M., TOR SITSEVA, A.M.; TARDA, I.; IVANCUA, N.V.

Preparation and properties of only-Moving length and Consequence (MIRA 17:2)

1. Lenis models in technology accessing the state of length in models.

1. Lenis models in technology accessing the state of length in models.

TRANSFER PURGE SERVICE

s/0190/64/006/003/0379/0383

ACCESSION NR: AP4030350

AUTHORS: Nikolayev, A. F.; Tereshchenko, M. N.

TITLE: Block copolymerization of N-vinylphthalimide and styrene

SOURCE: Vywsokomolekulyarnywye soyedineniya, v. 6, no. 3, 1964, 379-383

TOPIC TAGS: polymer, copolymer, copolymerization, N-vinylphthalimide, styrene, reactivity, benzoyl peroxide, copolymerization constant, solubility, intrinsic viscosity, thermal stability

ABSTRACT: The copolymerization of N-vinylphthalimide (VPI) and styrene was conducted in glass ampules (in the presence of 0.5% benzoyl peroxide) at 65 and 85c. The copolymers obtained were dissolved in methyleneculoride and precipitated by methanol. The determination of nitrogen in the copolymers was conducted by Duma's method, serving as a basis for calculating their composition. It was found that when the monomers were taken in equimolar ratio the yield of the copolymer within 3 hours at 65C amounted to 8% and at 85C to 24%. It was also observed that the polymerization rate depended on the composition of the mixture of monomers. A mixture of styrene with up to 10 mole% VPI polymerizes more rapidly than pure

Card 1/2

ACCESSION NR: APLO30350

styrene. An increase in VPI in the original mixture up to 65 mole% results in a slowing down of the reaction, but with a further increase in VPI the yield of the copolymer increases again. The polymerization constant for the styrene monomer was calculated as approximating 8.3, while that of VPI was 0.075, indicating that styrene was the most active component in the copolymerization reaction. The copolymers containing up to 10 mole, VPI were soluble in the same solvents as polystyrene, becoming gradually less soluble with increased VPI content. Copolymers containing over 33% VPI were soluble in methylenechloride, chloroform, dichloroethane and pyridine, but were insoluble in aliphatic hydrocarbons, alcohols, ethers, and in formic and acetic acid, even at 700. The vitrification temperature and thermal resistance of the copolymers increased with higher VPI content, while the water resistance and mechanical properties were decreasing. The authors suggest that a 50% VPI content may yield a copolymor with satisfactory mechanical properties. Orig. art. has: 1 formula, 1 chart, and 2 tables.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut im. Lensoveta (Leningrad Technological Institute)

Subhitted: 29Dec62

DATE ACQ: 07May64

ENCL: 00

STIB CODE: CH

NO REF SOV: 002

OTHER: 003

Card 2/2

CONSTON NR. AT	A047198	CWA(a) 'Pc-4/Pr-4 8/0190/64/006/	- 2	
Armacoa Nikolaye	A.F. Rozenberg, M. Creeties of Nevny	E.; Shelobayeva, S. Y		
	-Talailygraytye govedir	ieniya, v. 6, no. 10, 11		
TOPIC TAGS: phth block polymerization	slimids polymorization, m. solution polymorizat	tetrahydrophilaithidd ion, yinylmethylphthali	mide, initiator	
ABSTRACT: Block tetrahydrophthalim	or solution polymeriza ide (VTHPI) and N-viny	etermine into extension a	s methods and noivm	erized
the boldmerrance	ide (VIII) lied experimentally to di kinetics. Monomers we caled glass vessels in t Linear dependence of ig. 1 of the Enclosure).	be presence of azocited	- manufaction W	
	Bar Lun amattan	k [M] ^{1,6} [I]		
Core 1/82				

A proposed mechanism of radicals in which the unpacyclic double bond, chain methyl on the hexenic ring measurements indicated taffected the molecular we solubility in organic solve tables. 4 figures and 2 for	and not allect the act hat neither temperatu- ight. The polymers d ents on heating or afte- rmulas.	ivity of the monomer. re nor monomer and it id not soften up to 250 r storage in air. Orig	Viscometric nitiator concentr C and lost their f. art. has: 2	
ASSOCIATION: Leningre		보고 하면 하다 일반한 모든 하는 사람들은 하지 않는데 함께	在 化氯 医巴萨氏管 经管理的复数形式的	
ASSOCIATION: Leningree Institute of Technology) SUBMITTED: 21Nov63	ENCL: 00	SUB CODE: OC		

ENT(m)/EPF(c)/ENP(j)/T Pc-4/Pr-4/Pa-4 RPL RH/JW L 10769-65 5/0190/64/006/010/1825/1828 ACCESSION HR: AP4047210 AUTHOR: Nikolayev, A. F.; Bondarenko, V. M. TITLE: Reaction of polyvinylamine with benzaldehyde, salicylaldehyde and furfural SOURCE: Vythsokomolekulyarnytye soyedineniya, v. 6, no. 10, 1964, 1825-1828 TOPIC TAGS: poly/vinylamine/, polymeric Schiff base, Schif base, benzaldehyde, saticylaldehyde, furfural, polyelkylidenevinylamine, polyerylidenevinylamine ABSTRACT: The authors describe the preparation and properties of polymeric Schiff bases obtained by the interaction of polyvinylamine with benzaldehyde, salicylaidehyde and furfural. The three new polymers: /poly-N-benzylidenevinylamine (PBVA), poly-N-furfurylidenevinylamine (PFVA) and poly-N-salicylidenevinylamine (PSVA) were prepared by mixing equimolar alcoholic solutions of polyvinylamine with the corresponding aldehyde at either 65-700 (one hour) or room temperature (24 hours). After drying in powder form, the purified polymers were insoluble in water but soluble in benzyl alcohol, dimethylformamide and glacial acetic acid. PSVA and PFVA were also soluble in ethyl alcohol and pyridine. In glacial acetic acid, all 3 polymers showed an abnormal dependence of viscosity on concentration; this is chara teristic of polyelectrolytes due to the presence of an electron-attracting

210			40.4
yield point were hi (70 and 1900). The C; at 140C, however d 26% for PBVA. The rder: PBVA < PFVA < al acids at the -N= e C, N, and H analys I table and I stre	e elasticity of all 3 , the degree of deform e rigidity of the mole < PSVA. The polymers CH- bond, and mere dif sis fer each polymer i ctural formule.	200C) than for PBVA polymers was practi- ation was 13% for cular chains increas are readily hydro- ficultly hydrolized s presented. Orig.	
ta) (Carles and to to the control of the carles and	가 이 선생님 사람이 되었다면 가장 내가 되었다. 그런 그렇게 살아가 되었다면 하다 없었다.	19. 25 克 1 - 新 5 5 美 新 30 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
	17/15-A-16-16-17 Su	B CODE: OC, MT	
wine harven. one	- use me of gulyyinyle	linkani shirki si ngarisi sa s	
对表,还有我们最后为60分分分别的2000年200	元星连续作业分析。1700年间,2000年	医抗自身化学抗结 网络经过超过多点的发生	
	yield point were hi (70 and 1900). The C; at 1400, however, d 26% for PBVA. The rder: PBVA < PFVA < al acids at the -N=0 e C, N, and H analyst I table and i strry adakly tekhnologiche te)	yield point were higher for PSVA (80 and (70 and 1900). The elasticity of all 3 C; at 1400, however, the degree of deformed 26% for PBVA. The rigidity of the molecular results at the -N=CH- bond, and more differently and Hanalysis for each polymers is a clds at the -N=CH- bond, and more differently and Hanalysis for each polymer is a clds and istrictural formula. **Adskly tekhnologicheskly:Institut im: Length 1988 Company Compa	yield point were higher for PSVA (80 and 200c) than for PBVA (70 and 190c). The elasticity of all 3 polymers was practicated in the state of deformation was 13% for d.26% for PBVA. The rigidity of the molecular chains increased in the PBVA of PSVA. The polymers are readily hydrolated at the -N=CH-bond, and mere difficultly hydrolated of N, and H analysis for each polymer is presented. Originally table and istrictural formula. **Edskiy tekhnologicheskiy: Institut im: Lensoveta (Lening activation in the content of the content

L 12004-65		/T Pc-4/Pr-4/Pt-10 RPL RM
Acossion NR	: AP4047211	S/0190/64/006/010/1829/1831
AUTHORI Bon	daranko, V. M., Nikolaya A	. F. Makarov, K. A.
TITLE: Coor	dination polymers based on p	oly-N-salicylidenevinylamine
80URCE (Vy* 1829-1831	śckowciskulycznytyc scyedine	miya, v. 6, no. 10, 1964,
TOPIC TAGS:	coordination polymer, chele	ite polymer, polysalicylidene-
		的现在分词 经基础信息 化邻氯化氯化 医异物结合征 化自动 化二氯化物 化二氯化物 医电影 化二氯化物 化二氯化物
derivates" r polymers bas polymers wer		nylamine (I). The coordination tions of I in dimethylformamic ordination number 4 (Cu, Fe,
derivates" r polymers bas polymers wer	eports the synthesis and pried on poly-N-salicylidenevice prepared by reacting solutions of divalent metals with co-	nylamine (I). The coordination tions of I in dimethylformamic ordination number 4 (Cu, Fe,
derivates I polymers bas polymers wer	eports the synthesis and pried on poly-N-salicylidenevice prepared by reacting solutions of divalent metals with co-	nylamine (I). The coordination tions of I in dimethylformamic ordination number 4 (Cu, Fe,

ACCESSION NEE	AP4047211		0
	Me ⁰⁺	~OH, CH, CH,-	
		CH,	
	нб н	CIE Me CH	
	\downarrow	-	
		$(\mathcal{Y}, \mathcal{V})$	
	ion polymers were an	ornhous colored po	vders insoluble i
		They softened	bove 250, and the
			Late charmal ata-
were soluble	544		
were soluble	ed on the metal pres		

	RI AP40472			
ASSOCIATION: (Leniugrad T	Leningra achnologic	dskiy takhnologicheskiy iu al lustitute)	stitut imeni Lens	oveta
SUBMITTED:	The second secon	ATD PRESS: 3120	ENCL: 00	
SUB CODE:	oc	NO REF SOV: 007	OTHER: 004	

ACCESSION NR: AP4042084

\$/0079/64/034/005/1831/1832

AUTHOR: Nikolayev, A. F.; Wang, Erh-t'en

TITLE: The production and properties of hexa (aminoalcilamino) triphosphonitriles

SOURCE: Zhurnal obshchey khimii, vol. 34, no. 6, 1964, 1831-1832

TOPIC TAGS: aliphatic polyamine, dioxane, reaction agent, hydrogen chloride salt, viscous liquid

ABSTRACT: The authors studied the reaction of aliphatic polyamines with triphosphonitrylchloride and established a means for producing hexa-derivatives of triphosphonitryles. Polyamines were used in heavy concentrations in comparison to triphosphonitrylchloride; a dioxane was used as the reaction agent. The resultant compound is a viscous liquid which is soluble in water and the simple alcohols, and form a hydrogen chloride salt which is not soluble in alcohol.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad Institute of Technology)

1/2

Card.

ACCESSION NR: AP4042084

SUBMITTED: 170ct62

SUB CODE: IC NO REF SOV: 000

INCL: 00

OTHER: 004

ACCESSION NR: AP4042085

5/0079/64/034/006/1833/1835

AUTHOR: Nikolayev, A. F.; Wang, Erh-t'en

TITLE: Hexa (hydroxyalkylhydroxy) triphosphonitryles

SOURCE: Zhurnal obshchey khimii, vol. 34, no. 6, 1964, 1833-1835

TOPIC TAGS: glycole, dissociation products, infusible resin, non soluble resin, hexatriphosphonitryle

ABSTRACT: This paper examines the reaction products of triphosphonitrylchloride with ethylene, 1,4-butylene, diethyleneglycoles, and glycerene. The authors established that hexahydroxyalkylhydroxytriphosphonitryles possess the property of fire extinguishment; when heated above 110° a portion of glycole and other dissociated products are isolated. This process is accompanied by the formation of infusible and non-soluble resins.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lenosoveta (Leningrad Institute of Technology)

1/2

Card

NIKOLAYEV, A.F.; DANGER, N.V.; where P.Va., a.P.

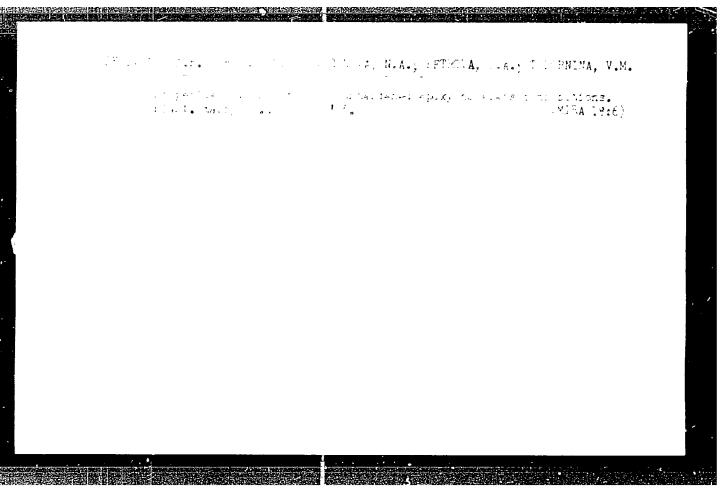
Reaction of amines with 1-vinyled linearies only on the no. 9:3080-3089 | 100.

1. Teningradskiy teansolugibe skily droited trender as a containable of the new parts of the new

MEY(A, N.V.; NiKulaYeV. A.P.

Synthesis of 1,4-di(alkeny.) tenzenes and Medic Alder. Chor. Mid. khim. 1 no.21296-299 P *65.

1. Tekhnologicheskiy institut imenį Lensoveta.



L 35521-65 EWT(m)/EPF(c)/EPF/EWP(%)/T PC-4/Pr-4/Pg-4 RFL WW/RM S/0286/65/000/005/0071/0071 ACCESSION NR: AP5008200 AUTHORS: Nikolayev, A. F.; Zyryanova, T. A.; Balayev, G. A.; Lebedeva, E. V.; Afanas yeva, Times TITLE: A method for producing polyphosphonitrile chloride esters. Class 39. No. 168879 6 SOURCE: Byilleten' isobreteniy i tovarnykh snakov, no. 5, 1965, 71 TOPIC TAGS: polyphosphonitrile chloride, ester, sliphitic compound, aromatic osmpound ABSTRACT: This Author Certificate presents a method for producing polyphosphonitrile chloride esters by condensing polyphosphonitrile chloride with polyhydroxyl compounds of the alighatic or aromatic series during heating in the presence of an alkaline agent. In order to expand the raw-material base and to simplify the technology of the process, a mixture of phosphonitrile chloride cligomers (PEC12)n (n = 3-12) is used as the initial polyphosphomitrile chlorides, and caustic alkalies are used as the alkaline agent. ASSOCIATION: none SUB CODE ENCL: 00 SUBMITTED: 09Jan64 OTHER! . OCO NO REF SOV: 000 Card 1/1

EPF(c)/EPR/EWP(j)/EWT(m)/EWG(m)/T L 35466-65 Pc-4/Pr-4/Ps-4 RPL RM/RMH/WM 3/0190/65/007/001/0101/0107 ACCESSION NR: AP5003831 AUTHORS: Skondak, I.; Nikolayev, A. F. E TITLE: Synthesis of weakly basic anion exchangers based on vinylamine-divinylbenzene copolymers Vysokomolekulyarnyye soyedineniya, v. 7, no. 1, 1965, 101-107 TOPIC TAGS: anion exchanger, vinylamine, divinylbenzene, copolymer, ammonolysis ABSTRACT: Weakly basic anion exchangers of high exchange capacity, ranging from 10.6-11.75 mg - equ/g based on vinylamine-divinylbenzene copolymers have been synthesized by ammonolysis of hydrazine-hydrate and hydrolysis of N-phthalimidedivinglbenzene bead copolymers by the method described by D. D. Reynolds and W. O. Kenion (J. Amer. Chem. Soc., 69, 911, 1947). Based on the ammonolysis conditions CH-CH-DVB of I Card 1/3

L 35466-65

ACCESSION NR: AP5003831

and on the divinylbenzene (DVB) content, the resulting anion exchangers had the following contents of elementary units x, y, and z

x=84-97, y=0.6-6, z=3-10 (molar %). Moreover, x increased from 91 to 93, z remained constant, and y decreased from 3 to 1% as reaction time increased from 0-30 hours. Also, x decreased from 100 to 85 and z and y increased from 0-10 and 5% respectively as DVB increased from 0 to 8% molar. The exchange capacity was found to increase from $K_A=10.6$ to 11.1 mg-equ/g as reaction time was increased from 0 to 30 hours, and was found to decrease from 11.8 to 9.1 as the DVB content increased from 0 to 10%. The swelling coefficient was found to increase linearly from $K_H=3$ to 8 ml/ml with increased DVB content from 0 to 10%.

The swelling coefficient increased with increasing exchange capacity coefficient as follows: $K_{\rm H}=2.3$ ml/ml for $K_{\rm A}=9.1$ mg-equ/gm, 4.5 for 11 and 8.5 for 12.

Card 2/3

L 35466-0;	,		
ACCESSION NR: AP5003831		/	
The exchange capacity increase and "nonactive" (amide)) but has: 4 figures, 9 formulas,	was always lower than	gen content ("active" (amine) the theoretical. Orig. art.	
ASSOCIATION: Leningradskiy (Institute of Technology)	tekhnologicheskiy insti	tut im. Lensoveta (Leningrad	
SUBMITTED: 14Mar64	ENCL: 00	SUB CODE: OC	
NO REF SOV: 003	OTHER: 010		
			3
•		$t \sim e^{-\alpha t}$	ar san a
•		•	